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JAPANESE PATENT OFFICE

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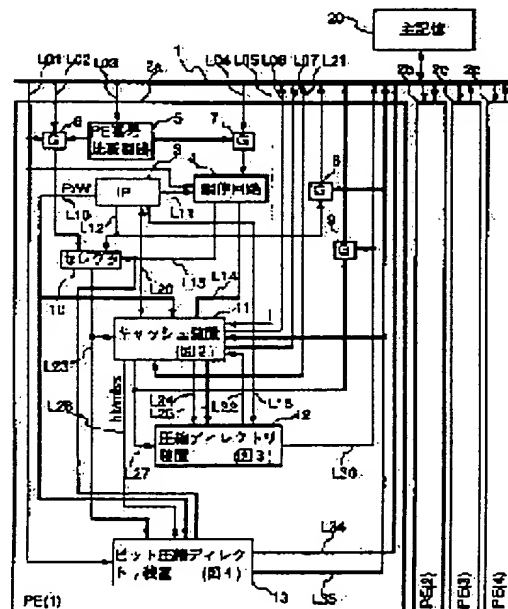
MATSUURA TSUGUO

(54) CACHE CONTROL METHOD AND MULTIPROCESSOR SYSTEM USING THIS METHOD

(57)Abstract:

PURPOSE: To use a directory having a small capacity to control the matching between caches.

CONSTITUTION: A bit compression directory device 13 of each processor element (PE) divides a main storage 20 into plural unit areas by a size larger than the line size of a cache device 11, and this bit compression directory having the unit area as the unit is held correspondingly to other PEs, and each PE uses this bit compression directory device to execute the matching control between caches when data is written in the main storage 20. A compression directory device 12 holds the number of blocks cached by a cache device 11 of this PE and a compression directory showing whether some of these blocks are already updated or not, and the update of the bit map directory or this PE is instructed to other PEs in accordance with the change of these information.



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